CENTRAL INTELLIGENCE AGENCY

NCY -RDP82-00457R006700

CD NO. 25X1A

COUNTRY China/Macao/Mong Kong

DATE DISTR. 19 Jan 51

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SUBJECT

Negotiations for Marine Engines in Hong Kong

NO. OF PAGES

PLACE

25X1C

ACQUIRED DATE OF

INFO.

25X1A

RETURN TO CIA

NO. OF ENCLS.

SUPPLEMENT TO REPORT NO.

25X1X1. Six hundred Gray marine diesel engines have been offered for sale by an unidentified representative of T. V. SOONG in Macao. A former Nationalist official not associated with SOONS was in mid-October 1950 trying to purchase the engines for resale to an unnamed customer, presumably Chinese Communist. The price of the engines was not stated in the original offer. Several Hong Kong commercial people intended to go to Macao to inspect the engines and learn particulars,

Specifications of the engines, Model 64 HN 9 were cited as follows: *

General Specification for Gray Marine Diesel

Model. 64 HN9

Specification:

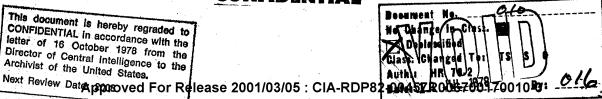
Engine Model	64-HN9
Number of Cylinders	6
Borand Storke, inches	44 x 5
Total Displacement	452 cu. inches.
B.M.E.P. lbs per sq in. at maximum power ration	99.83
Compression Ratio	16.1
Number of Exhaust Valves per cylinder	2.
Exhaust Valve diameter	1-9/16
Number of Main Bearings	7.
Main Bearing Diameter. inches	3 ∞1/2
Main Bearing Length, inches.	1-1/8.
Main Bearing Projected area, sq in.	27.56
Crankpin diameter inches	2-3/4
Crankpin Bearing length inches	1-25/32
Crankpin Bearing projected area. sq. area inches	29.37
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...... 225 H.P. at 2100 RPM.

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This document is hereby regraded to CONFIDENTIAL in accordance with the letter of 16 October 1978 from the Director of Central Intelligence to the Archivist of the United States.



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Nater inlet (ISP) inches of Fuel Inlet Fitting inches Fuel outlet Fitting inches Maximum width inches Leg Bolt centers inches	s						
Firing Order: 2000000000000000000000000000000000000	000000000000000000000000000000000000000						
-major selv. Salv (Salv Mandes-virtually descriptor)	12 wolt, flange mounted unit with positive engagement of pinion through solenoid relay switch.						
Generator:	12-volt. 225-watt generator with voltage regulator belt driven. Futs in at 560 rpm. reachs maximum charge of 16-18 amps. at 950.						
Lubrication oil filter:	A partial flow absorption-typecolor filter subjects all engine oil to extremely fine filtering.						
Fuel filters,	Main 3 stage filter separate from engine, absorption type filter sounted on engine, also small auxiliary filters, consisting of porous metal elements, built into each injector.						
Transmission Ratio: accessores consequence 105-1.							
Rotation: Right Hand Pro	peller.						
•	Capacities						
Engine Crankcase. Lubrication oil							
(Figure given is minimum required of refill and depends on angle of installation and type of oil pan used.) Fill grade of diesel oil, $S_{\alpha}A_{\alpha}E_{\alpha}$ No. 30							
Clutch and reverse gear:	lubrication oil						
Fresh Nater pump capacity	35 quarts 7						
	2100 rpm.						
Lubrication oil pressure							
•	Standard Clearances						
Piston in cylinder liner Piston Ring Cap: 4 comp	ression rings 1/8						

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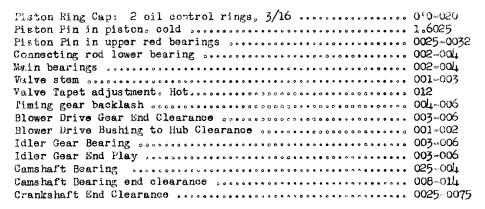
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Engine Timing in Crankshaft Degrees

Injection begins	2-1/2 deg. before top dead center.
Injection ends	5 dego before top dead centers
Injection period	
Exhaust Valve open	87-1/2 deg. before bottom dead center.
Exhaust Period	
Exhaust Valve close	
Intake port open	
Intake port close	· . 9
Intake period	96 degrees.
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* Comment: Specifications are copied exactly as received,

